

ENHANCED ULTRASOUND DETECTION WITH TEMPERATURE-
DEPENDENT CONTRAST AGENTS

ABSTRACT OF THE DISCLOSURE

- 5 Methods and devices for enhanced ultrasound detection based upon changing temperature and ultrasound reflectivity of a temperature-dependent contrast agent bound to an ultrasound target are disclosed. The methods and devices can be used for enhanced imaging alone or in conjunction with drug delivery, with therapeutic approaches such as hyperthermia or cryotherapy or with other imaging modalities.